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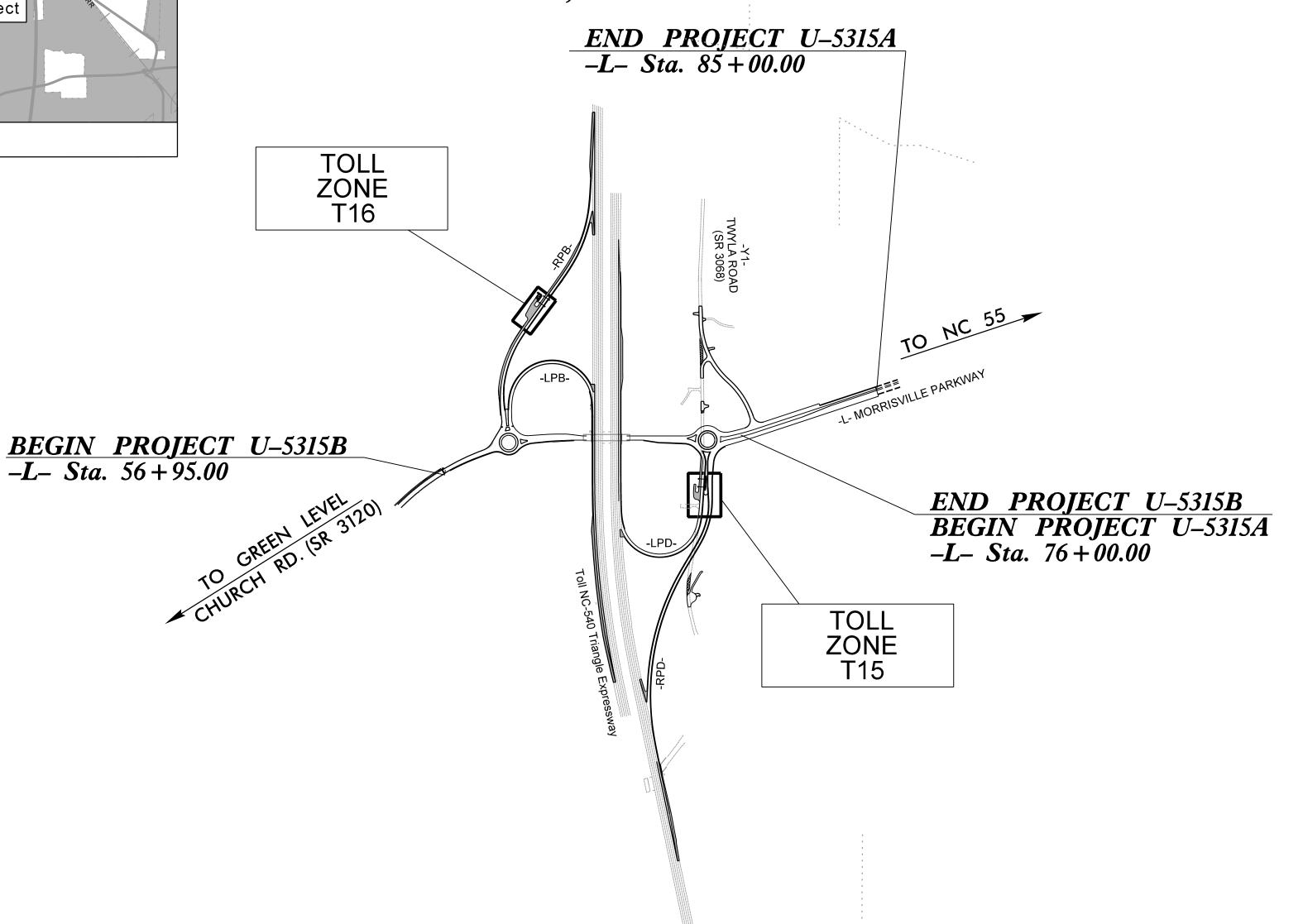
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# WAKE COUNTY

N.C. U-5315A/U-5315B AET-1 STPDA-0503(19) PE U-5315A 45429.1.F2 U\_5315A 45429.2.2 STPDA-0540(38) R/W, UTILITIES U-5315B 45429.1.F3 STPDA-0503(19) PΕ STPDA-0540(39) R/W, UTILITIES U-5315B 45429.2.3 U-5315A&B 45429.3.3 CONST. STPDA-0540(39) U-5315B 45429.5.TA1 TURNPIKE CONST. U-5315B 45429.5.TA3 TURNPIKE ROW

LOCATION: MORRISVILLE PARKWAY EXTENSION AND NC 540 INTERCHANGE FROM WEST OF HIGHCROFT DRIVE TO EAST OF MILLS PARK DRIVE IN CARY TYPE OF WORK: GRADING, DRAINAGE, PAVING, CULVERT,

SIGNING, AND TOLL INFRASTRUCTURE



INDEX OF SHEETS CONVENTIONAL PLAN SHEET SYMBOLS AET-1B THRU AET-1N NCTA AET STANDARD DRAWINGS PAVEMENT DETAILS **GANTRY LOCATIONS** SPOT ELEVATIONS AET-1R **GRADING DETAILS** SCREEN WALL- LOCATION DETAIL TOLL ZONE T16 DETAIL SHEET AET-3 TOLL ZONE TI5 DETAIL SHEET AET-4 TOLL ZONE T15 AND T16 PROFILE SHEET AET-5 TOLL ZONE T16 CROSS SECTIONS AET-6 **TOLL ZONE T15 CROSS SECTIONS** 

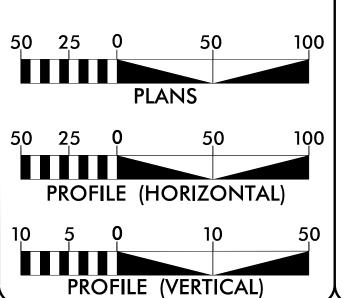
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## GRAPHIC SCALES

BEING LIMITED TO INTERCHANGES.

1. THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS

Begin Project



### DESIGN DATA

**End Project** 

VICINITY MAP

ADT 2017 = 11,850ADT 2037 = 23,005K = 12 %D = 60 %

T = 4 % \*

V = 50 MPH\* (TTST 1% + DUALS 3%)

FUNC. CLASS = MAJOR THOROUGHFARE / URBAN ARTERIAL

### PROJECT LENGTH

LENGTH OF PROJECT U-5315B. ..0.322 mi LENGTH OF PROJECT U-5315A..... TOTAL LENGTH.....

.....0.170 mi ....0.492 mi

### PREPARED IN THE OFFICE OF: FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DATE: NOVEMBER 20, 2015 LETTING DATE:

**DECEMBER 19, 2017** 

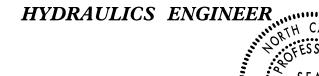
2012 STANDARD SPECIFICATIONS

STEPHEN ROBERTS, P.E. PROJECT DESIGN ENGINEER

B. KEITH SKINNER, P.E.

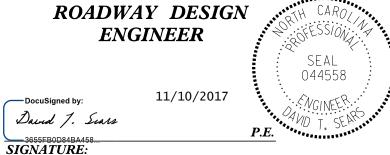
PROJECT ENGINEER

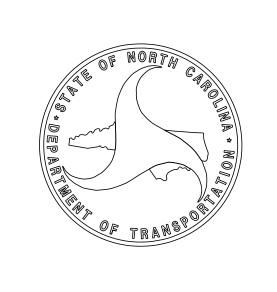
MOHAMMED E. MAHJOUB NCDOT CONTACT: SPECIAL DESIGN PROJECT ENGINEER ROADWAY DESIGN UNIT





**ENGINEER** 





DocuSign Envelope ID: 8E2C8A95-4B11-4E92-A309-8C43D66F95A4

PROJECT REFERENCE NO. AET-IA U-5315 A&B

E.O.I.

End of Information

Designated U/G Fiber Optics Cable (S.U.E.\*) -----

Note: Not to Scale

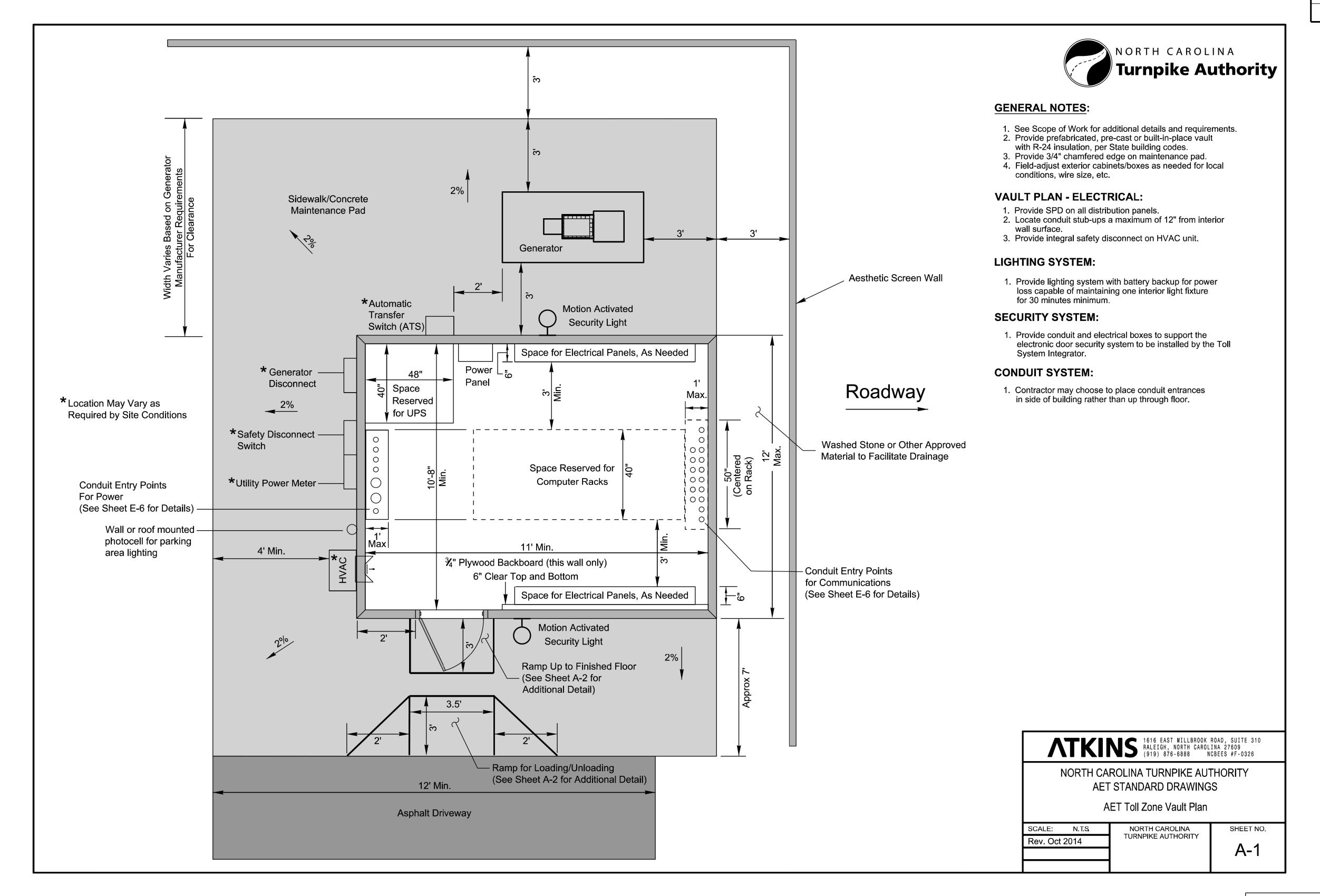
\*S.U.E. = Subsurface Utility Engineering

CONVENTIONAL	PLAN	SHEET	SYMBOLS
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BOUNDARIES AND PROPERTY	<b>7.</b>					WATER:	
State Line						Water Manhole	_
County Line		RAILROADS:				Water Meter	- 0
Township Line		Standard Gauge ————	CSX TRANSPORTATION		0 0 0	Water Valve	- ⊗
City Line		RR Signal Milepost ————————————————————————————————————	⊙ MILEPOST 35	Orchard	· · · · · · · · · · · · · · · · · · ·	Water Hydrant	- ➪
Reservation Line		Switch —	SWITCH	Vineyard ————————————————————————————————————	Vineyard	Recorded U/G Water Line	w
Property Line		RR Abandoned —————		EXISTING STRUCTURES:		Designated U/G Water Line (S.U.E.*)	
Existing Iron Pin	<u></u>	RR Dismantled				Above Ground Water Line	—A/G Water
Property Corner	×	RIGHT OF WAY:		MAJOR:  Pridge Tuppel or Poy Culvert ————	CONC		
Property Monument	 ECM	Baseline Control Point	•	Bridge, Tunnel or Box Culvert  Bridge Wing Wall, Head Wall and End Wall		TV:	
Parcel/Sequence Number ————————————————————————————————————		Existing Right of Way Marker	$\triangle$		J conc ""	TV Satellite Dish	- 🖔
Existing Fence Line		Existing Right of Way Line		MINOR:  Head and End Wall ——————————————————————————————————	CONC HW	TV Pedestal ————————————————————————————————————	_ <u>C</u>
Proposed Woven Wire Fence	<del></del>	Proposed Right of Way Line	$\frac{R}{W}$	Pipe Culvert		TV Tower	-
Proposed Chain Link Fence	<del></del>	Proposed Right of Way Line with	_	Footbridge —	>	U/G TV Cable Hand Hole	— H <sub>H</sub>
Proposed Barbed Wire Fence		Iron Pin and Cap Marker	$\frac{R}{W}$		СВ	Recorded U/G TV Cable	тv
Existing Wetland Boundary	wlb	Proposed Right of Way Line with  Concrete or Granite R/W Marker	$\frac{\mathbb{R}}{\mathbb{W}}$	Drainage Box: Catch Basin, DI or JB	СВ		
Proposed Wetland Boundary —	WLB	Proposed Control of Access Line with		Paved Ditch Gutter		Recorded U/G Fiber Optic Cable	TV F0
Existing Endangered Animal Boundary ——	EAB	Concrete C/A Marker			(5)	Designated U/G Fiber Optic Cable (S.U.E.*)	— — — — TV FO— — —
Existing Endangered Plant Boundary ———	ЕРВ	Existing Control of Access		Storm Sewer	s	- congruence of a state of place of the control (crosses )	
Known Soil Contamination: Area or Site —	—— <b>%</b> — <b>%</b>	Proposed Control of Access ————		TITH TIPE		GAS:	
Potential Soil Contamination: Area or Site —		Existing Easement Line —————	——E——	UTILITIES:		Gas Valve	- <b>\( \rightarrow</b>
BUILDINGS AND OTHER CUL		Proposed Temporary Construction Easement –	E	POWER:	1	Gas Meter —	- <b>\(\rightarrow\)</b>
Gas Pump Vent or U/G Tank Cap	—	Proposed Temporary Drainage Easement ——	TDE	Existing Power Pole	•	Recorded U/G Gas Line	- G
·	⊙	Proposed Permanent Drainage Easement ——	PDE	Proposed Power Pole	<b>O</b>	Designated U/G Gas Line (S.U.E.*)	
Sign ————————————————————————————————————		Proposed Permanent Drainage / Utility Easement	†DUE	Existing Joint Use Pole	<b>-⊕</b> - 1	Above Ground Gas Line	A/G Gas
	W	Proposed Permanent Utility Easement ———	PUE	Proposed Joint Use Pole	-0-	Above Ground Gas Line	
Small Mine	— X	Proposed Temporary Utility Easement ———	TUE	Power Manhole ————————————————————————————————————	(P)	SANITARY SEWER:	
Foundation ————————————————————————————————————		Proposed Aerial Utility Easement ————	AUE	Power Line Tower ————————————————————————————————————		Sanitary Sewer Manhole	—
Area Outline		Proposed Permanent Easement with		Power Transformer ———————————————————————————————————	$\square$	Sanitary Sewer Mannole Sanitary Sewer Cleanout	_
Cemetery		Iron Pin and Cap Marker	<b>♦</b>	U/G Power Cable Hand Hole		U/G Sanitary Sewer Line ————————————————————————————————————	
Building —		ROADS AND RELATED FEATURE	<b>ES:</b>	H–Frame Pole ————————————————————————————————————	•	Above Ground Sanitary Sewer —	— A/G Sanitary Sewer
School	+	Existing Edge of Pavement		Recorded U/G Power Line ————————————————————————————————————	P	•	- FSS
Church -		Existing Curb ————		Designated U/G Power Line (S.U.E.*)	P	Designated SS Forced Main Line (S.U.E.*) —	
Dam —		Proposed Slope Stakes Cut	<u>C</u>	TELEBLIONIE.		Designated 33 Foreca Main Line (3.0.L.)	
HYDROLOGY:		Proposed Slope Stakes Fill ————	<u>F</u>	TELEPHONE:		MISCELLANEOUS:	
Stream or Body of Water ——————		Proposed Curb Ramp	CR	Existing Telephone Pole —————		Utility Pole —	
Hydro, Pool or Reservoir —————		Existing Metal Guardrail		Proposed Telephone Pole —————	-0-	Utility Pole with Base —	
Jurisdictional Stream	Js	Proposed Guardrail ————		Telephone Manhole	$\bigcirc$	Utility Located Object —	
Buffer Zone 1	BZ 1	Existing Cable Guiderail		Telephone Booth ———————————————————————————————————	3	Utility Traffic Signal Box —	_
Buffer Zone 2	BZ 2	Proposed Cable Guiderail		Telephone Pedestal —————	T	,	
Flow Arrow		Equality Symbol		Telephone Cell Tower ————————————————————————————————————	<b>,</b>	Utility Unknown U/G Line ————————————————————————————————————	
Disappearing Stream ————————————————————————————————————	>	Pavement Removal		U/G Telephone Cable Hand Hole ————	$H_{H}$	U/G Tank; Water, Gas, Oil ———————————————————————————————————	
Spring —	-0	VEGETATION:	*	Recorded U/G Telephone Cable ————	т ———	Underground Storage Tank, Approx. Loc. —	UST UST
Wetland	<u> </u>	Single Tree	<del>ن</del> ئ	Designated U/G Telephone Cable (S.U.E.*)—		A/G Tank; Water, Gas, Oil ———————————————————————————————————	
Proposed Lateral, Tail, Head Ditch	FLOW	Single Tree  Single Shrub	<u>ස</u>	Recorded U/G Telephone Conduit ———	тс	Geoenvironmental Boring	- <b>&amp;</b>
False Sump	— <del>—</del>	Hedge ———————————————————————————————————	······································	Designated U/G Telephone Conduit (S.U.E.*)	тс	U/G Test Hole (S.U.E.*)	<b>- ⊗</b>
		Woods Line ————		Recorded U/G Fiber Optics Cable ————	T F0	Abandoned According to Utility Records —  End of Information ————————————————————————————————————	
		· · · · · · · · · · · · · · · · · · ·				ENG OF INTORMOTION	_ F

PROJECT REFERENCE NO. AET-1B

U-5315 A&B







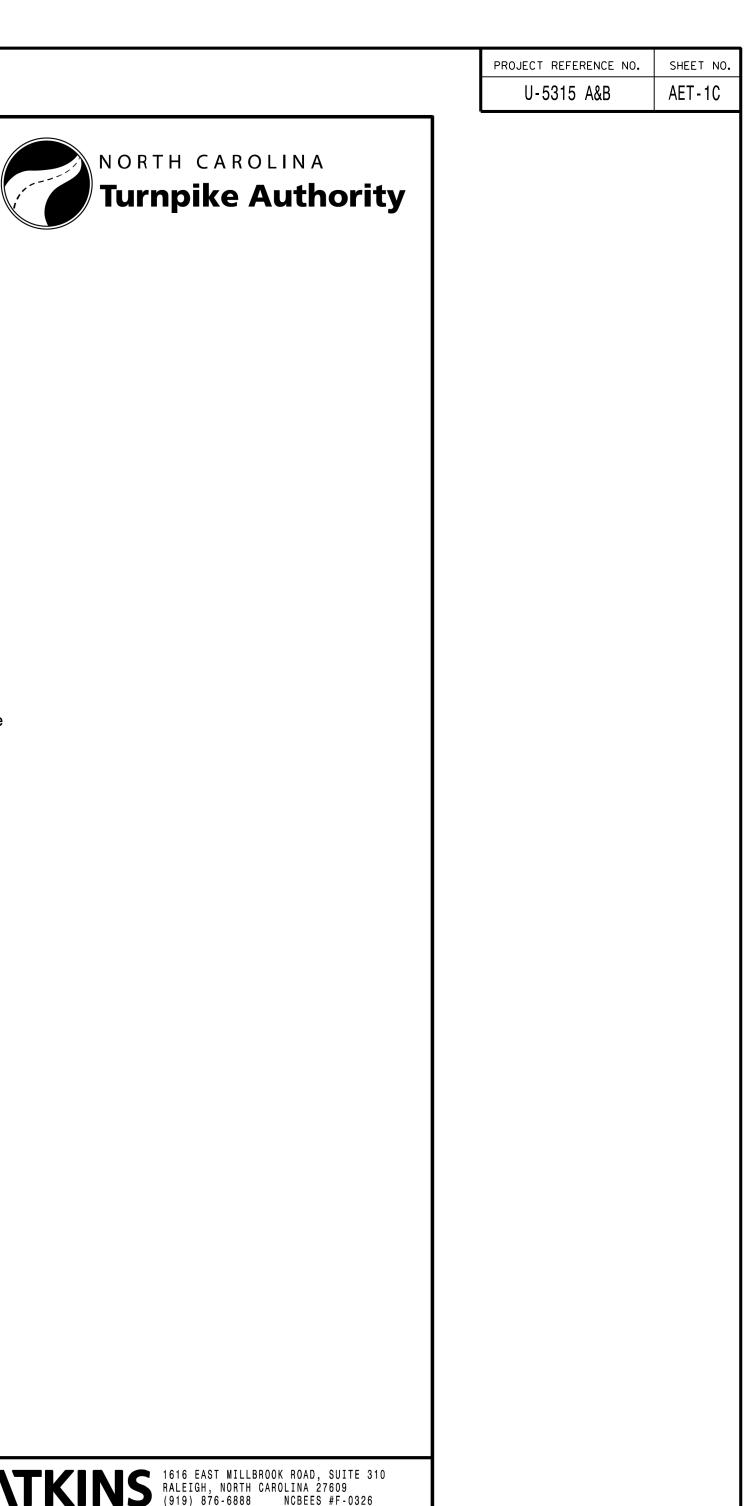
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N/A

NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL

DIVISION 05 WAKE COUNTY TOWN OF CARY PLAN DATE: SEPTEMBER 2017 REVIEWED BY: C.B. HOLDEN PREPARED BY: D.T. SEARS REVIEWED BY: REVISIONS INIT. DATE



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326 NORTH CAROLINA TURNPIKE AUTHORITY AET STANDARD DRAWINGS AET Toll Zone Vault Elevations

Finished Grade

NORTH CAROLINA TURNPIKE AUTHORITY SCALE: N.T.S.

SHEET NO. A-2

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— Aesthetic Screen Wall

Finished Grade

- Aesthetic Screen Wall (Beyond Building)

HVAC

tubing

Location May Vary as

Required by Site Conditions

3' Min.

Condensate

Motion Activated

Security Light

Ramp Up to Finished Floor

Photocell for

**\*** Utility

Meter

Air Terminal for LPS (Typ.)

\*Generator

ATS

3" stainless steel 3.5' wide slanted cover drip cover

Disconnect

\* Safety

Disconnect

**Motion Activated** Security Light

Concrete Slab for Toll Zone Vault

Front Elevation
Not to Scale

Concrete Slab for Toll Zone Vault

Side Elevation Not to Scale

Motion Activated —

Security Light

Generator

Aesthetic Screen Wall (Beyond) -

**HVAC** 

4' Min

Condensate

tubing

— Aesthetic Screen Wall

parking area lighting

N/A

Rev. Oct 2014

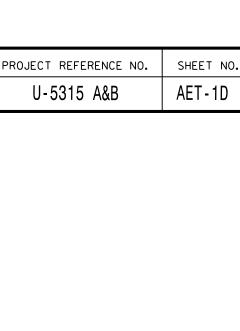
NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL

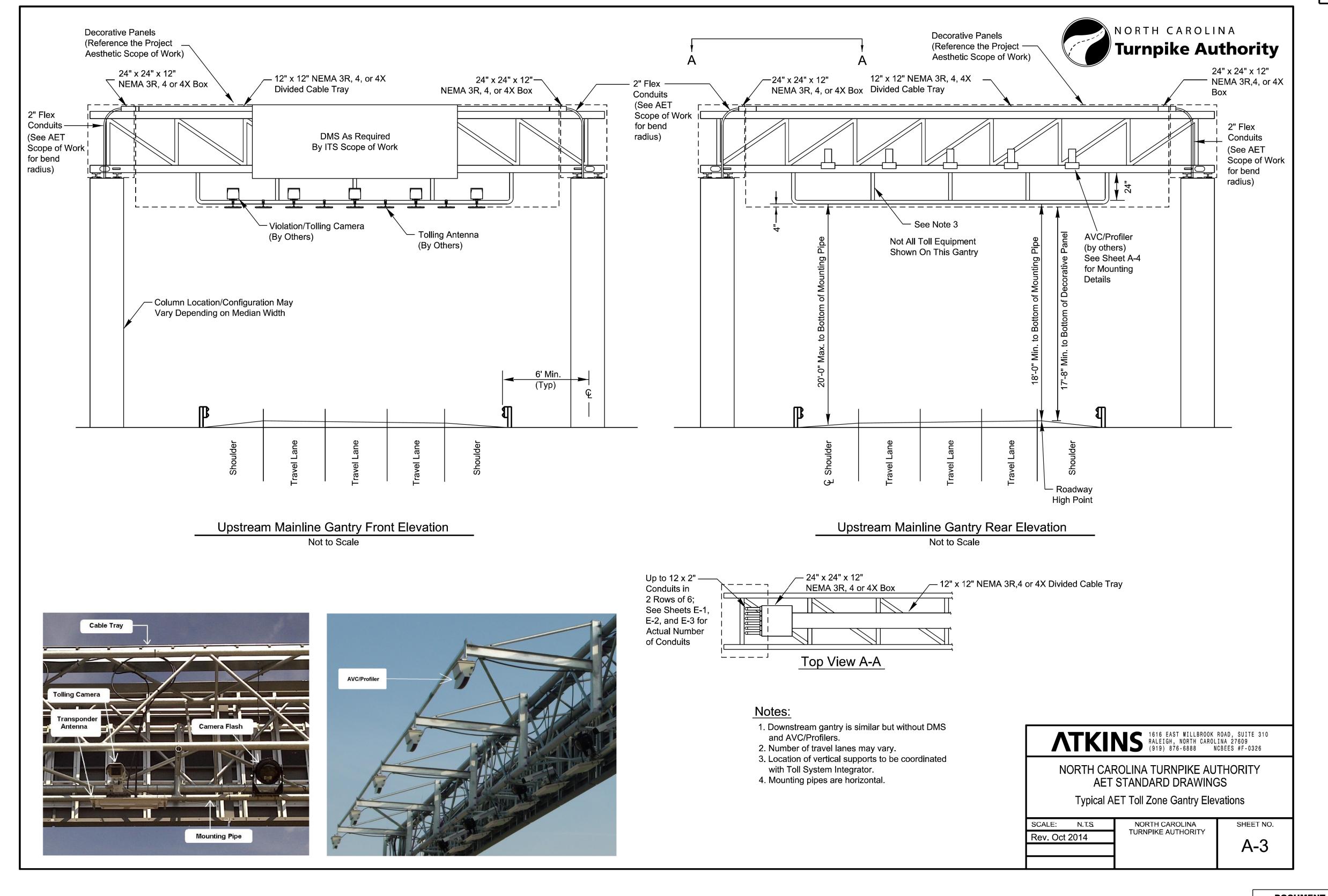
DIVISION 05 WAKE COUNTY TOWN OF CARY PLAN DATE: SEPTEMBER 2017 REVIEWED BY: C.B. HOLDEN 750 N. Greenfield Pkwy., Garner, NC 27529 PREPARED BY: D.T. SEARS REVIEWED BY: REVISIONS INIT. DATE

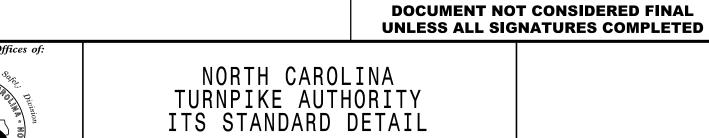
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Finished Grade

Finished Grade









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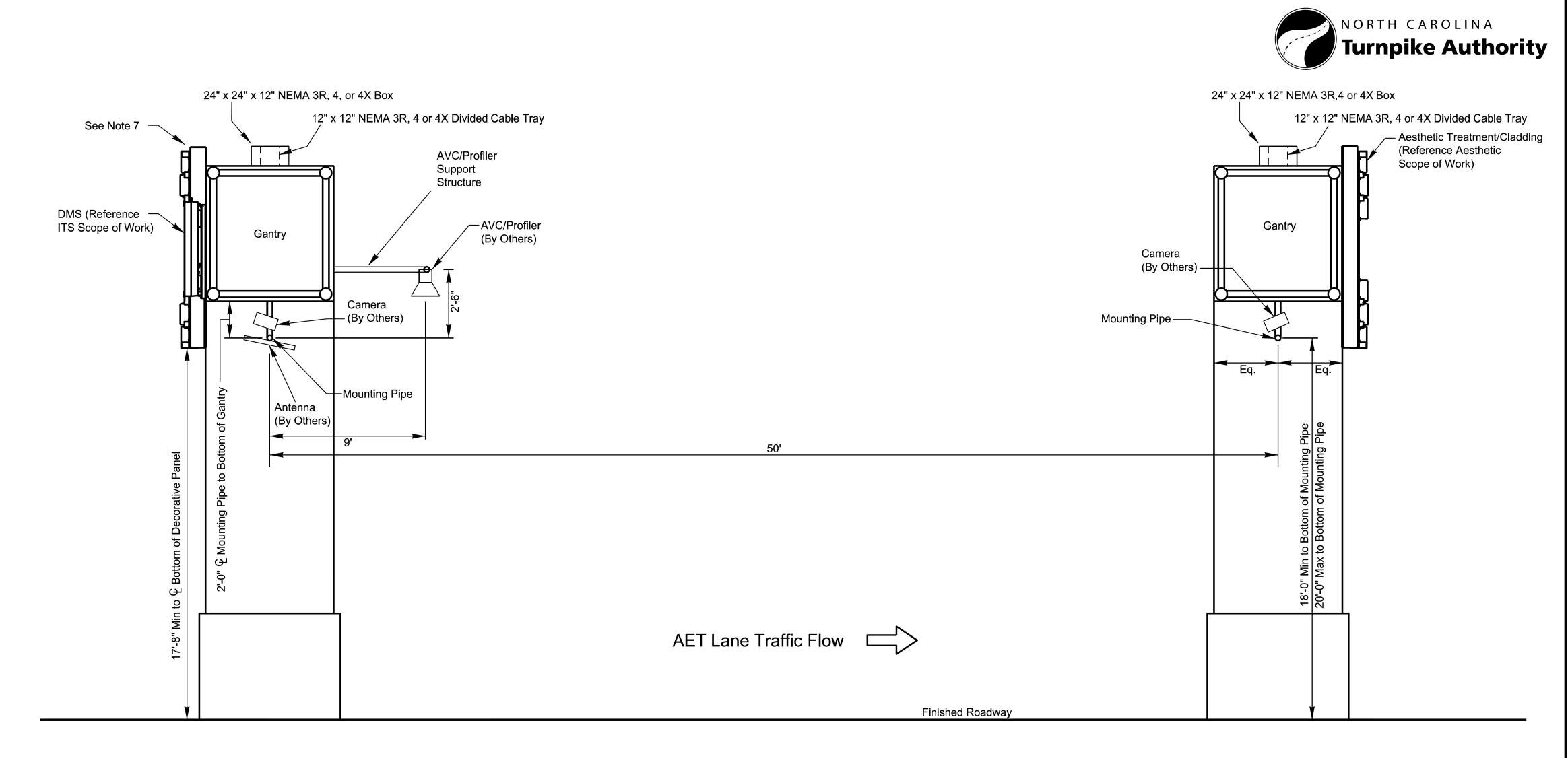
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DIVISION 05 WAKE COUNTY TOWN OF CARY
PLAN DATE: SEPTEMBER 2017 REVIEWED BY: C.B. HOLDEN
PREPARED BY: D.T. SEARS REVIEWED BY:

REVISIONS INIT. DATE

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PROJECT REFERENCE NO. AET-1E U-5315 A&B



Gantry Side Elevation

### Notes:

- 1. All mounting heights are to the centerline of the mounting pipe.
- 2. Heights are typical for both gantries.
- 3. Install DMS per the ITS Scope of Work.
- 4. Mounting pipes:
- Camera/Antenna 2" Rigid Galvanized Pipe. AVC/Profiler - 3" Rigid Galvanized Pipe (if mounting pipe is used)
- 5. Divided cable tray shall be watertight (NEMA 3R) and grounded on both ends per NEC.
- 6. All conduit from the divided cable tray to the top of the columns shall be concealed behind cladding or earwalls. (See Aesthetic Scope of Work for cladding details).
- 7. Top of gantry aesthetic treatment shall be higher than top of cable tray and watertight box.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

NORTH CAROLINA TURNPIKE AUTHORITY AET STANDARD DRAWINGS Typical AET Toll Zone Gantry Side Elevation

SCALE: N.T.S. Rev. Oct 2014

NORTH CAROLINA TURNPIKE AUTHORITY

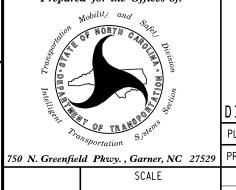
A-4

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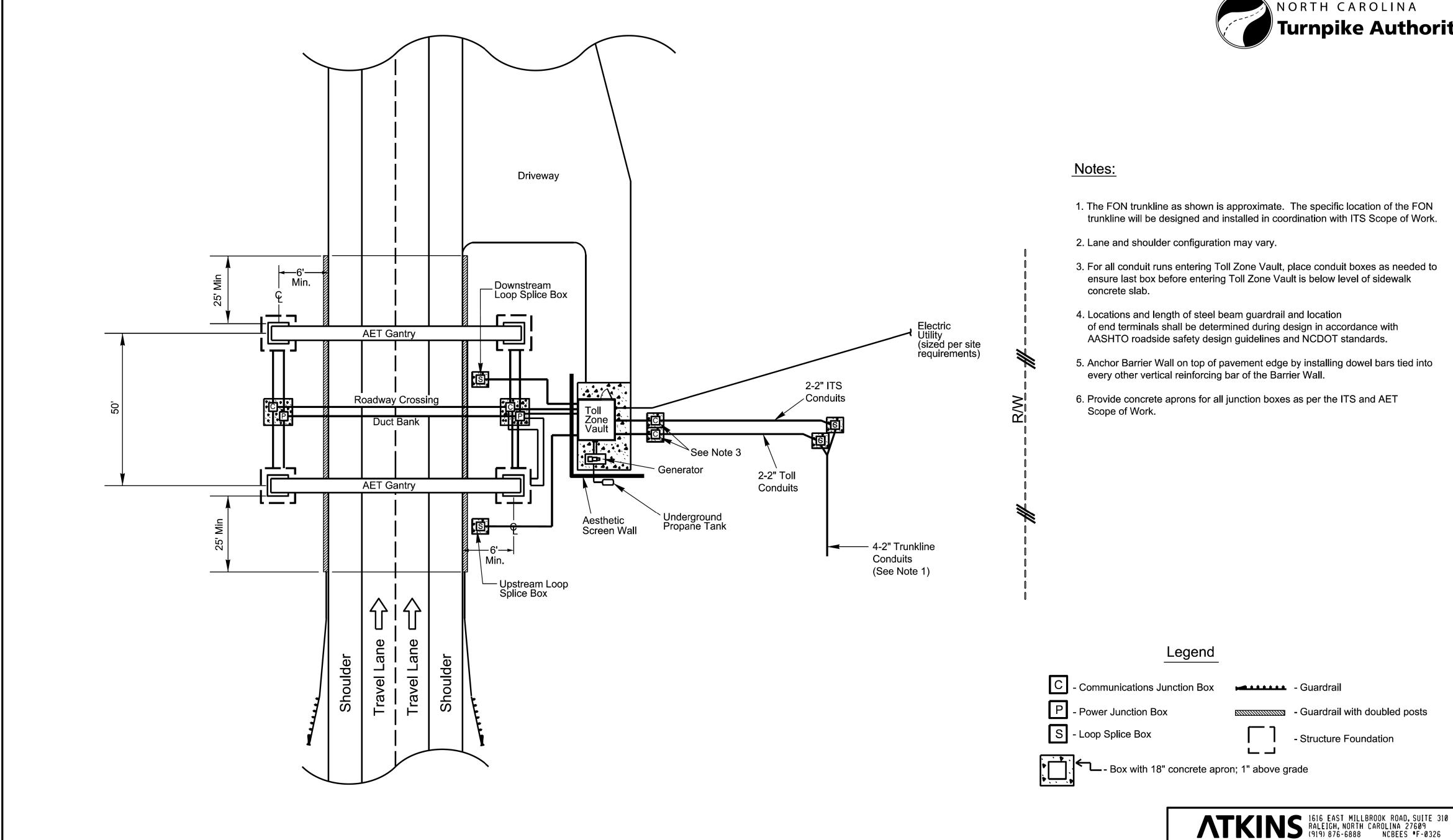
NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL

DIVISION 05 WAKE COUNTY TOWN OF CARY PLAN DATE: SEPTEMBER 2017 REVIEWED BY: C.B. HOLDEN PREPARED BY: D.T. SEARS REVIEWED BY: REVISIONS INIT. DATE

PROJECT REFERENCE NO. U-5315 A&B AET-1F

NORTH CAROLINA

Turnpike Authority



NORTH CAROLINA TURNPIKE AUTHORITY AET STANDARD DRAWINGS

Morrisville Parkway Ramp AET Toll Zone Plan View

SCALE: N.T.S. Rev. Sept. 2017

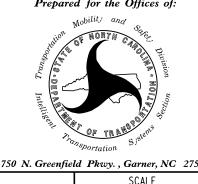
NORTH CAROLINA TURNPIKE AUTHORITY

C-2

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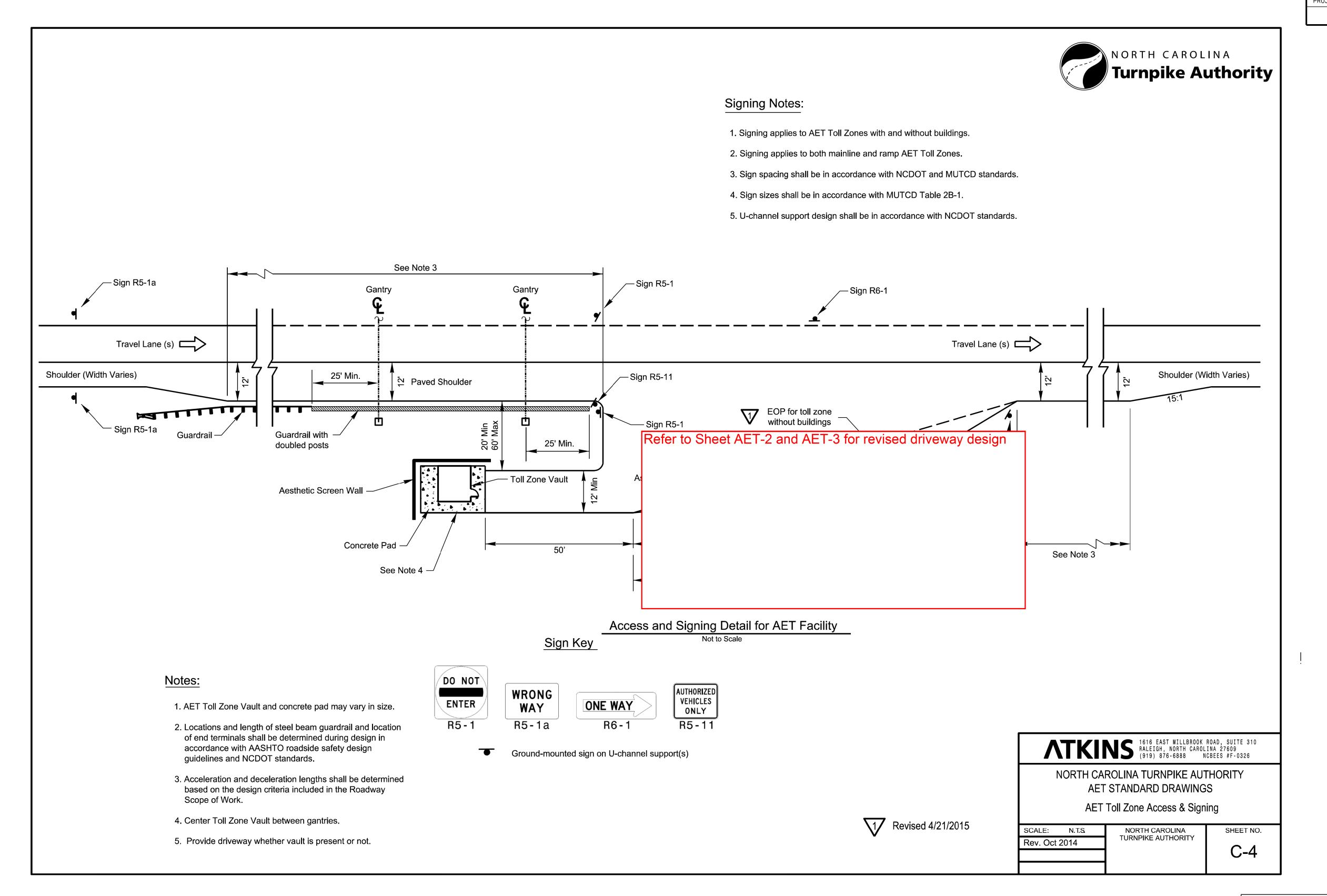
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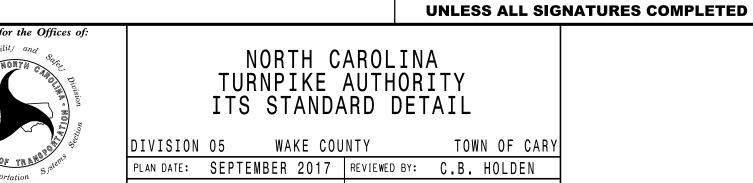


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NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL

DIVISION 05 WAKE COUNTY TOWN OF CARY PLAN DATE: SEPTEMBER 2017 REVIEWED BY: C.B. HOLDEN PREPARED BY: D.T. SEARS REVIEWED BY: REVISIONS INIT. DATE





PLANS PREPARED BY : RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609–3960 NC LICENSE NO. F-0112 • (919) 878-9560 PREPARED BY: D.T. SEARS REVIEWED BY:

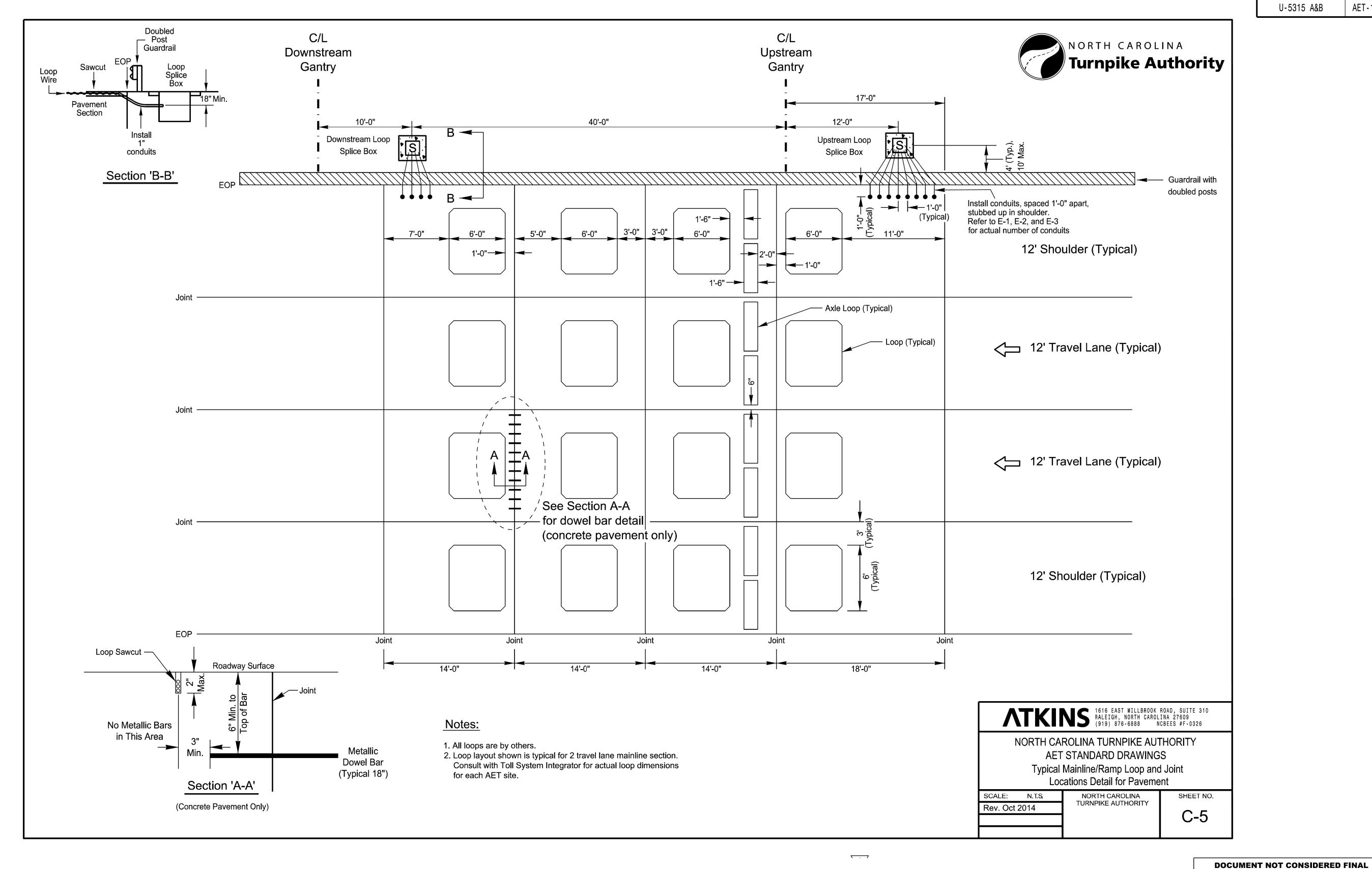
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**UNLESS ALL SIGNATURES COMPLETED** NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL OF CARY OLDEN

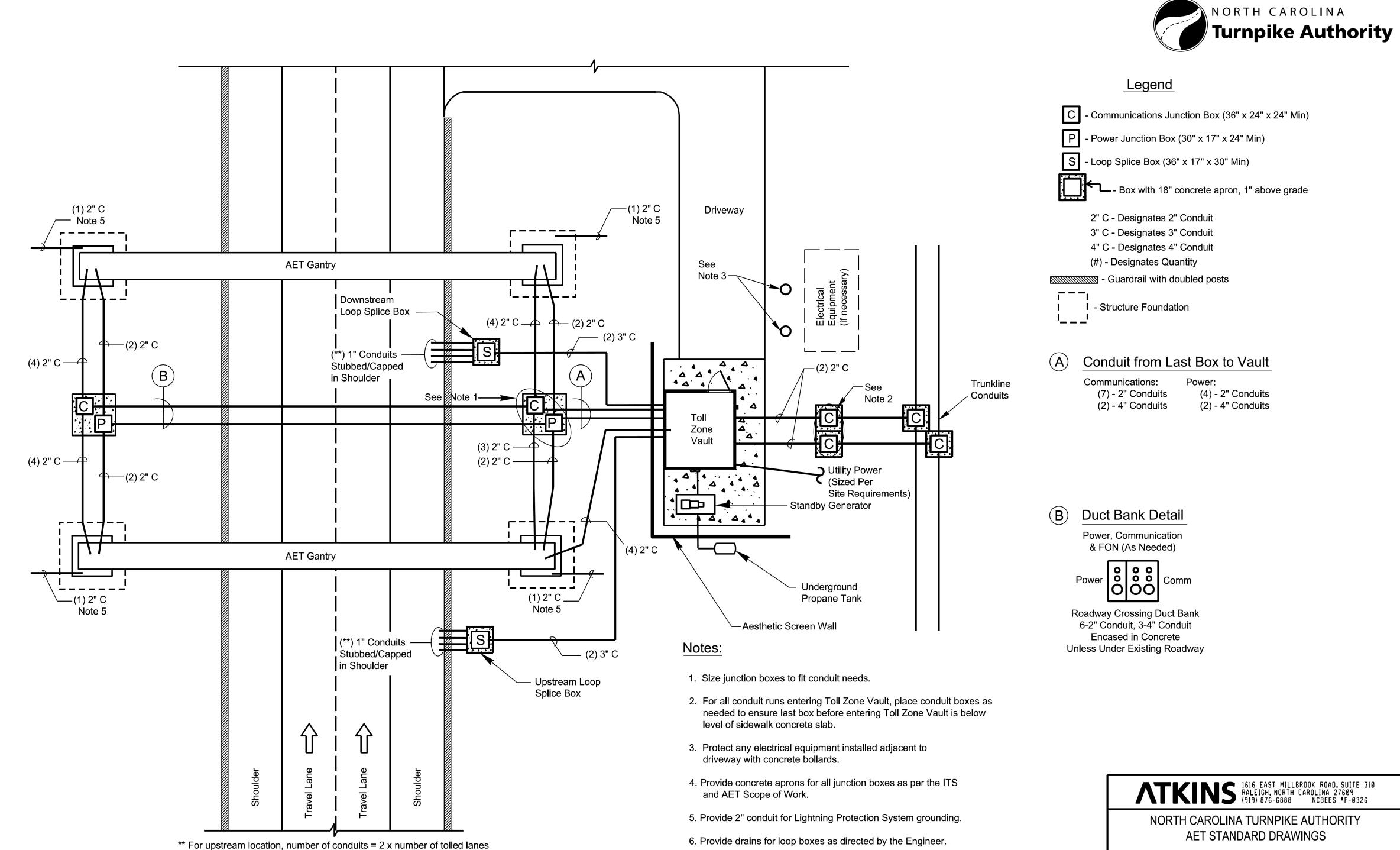
N/A

PLANS PREPARED BY: 750 N. Greenfield P RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960

NC LICENSE NO. F-0112 • (919) 878-9560

#10n					
	DIVISION	05 WAKE COU	NTY	TOWN (	OF CARY
OF TRAMS Systems	PLAN DATE:	SEPTEMBER 2017	REVIEWED BY: (	C.B. HO	LDEN
	PREPARED BY:	D.T. SEARS	REVIEWED BY:		
SCALE		REVISIONS		INIT.	DATE
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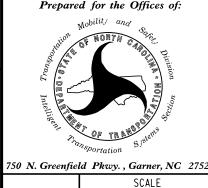
For downstream location, number of conduits = number of tolled lanes

(shoulders greater than 4' wide count as "tolled lanes")

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N/A

SCALE: N.T.S.

Rev. Sept. 2017

NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL

SHEET NO.

E-2

Morrisville Parkway Ramp AET Toll Zone Conduit Detail

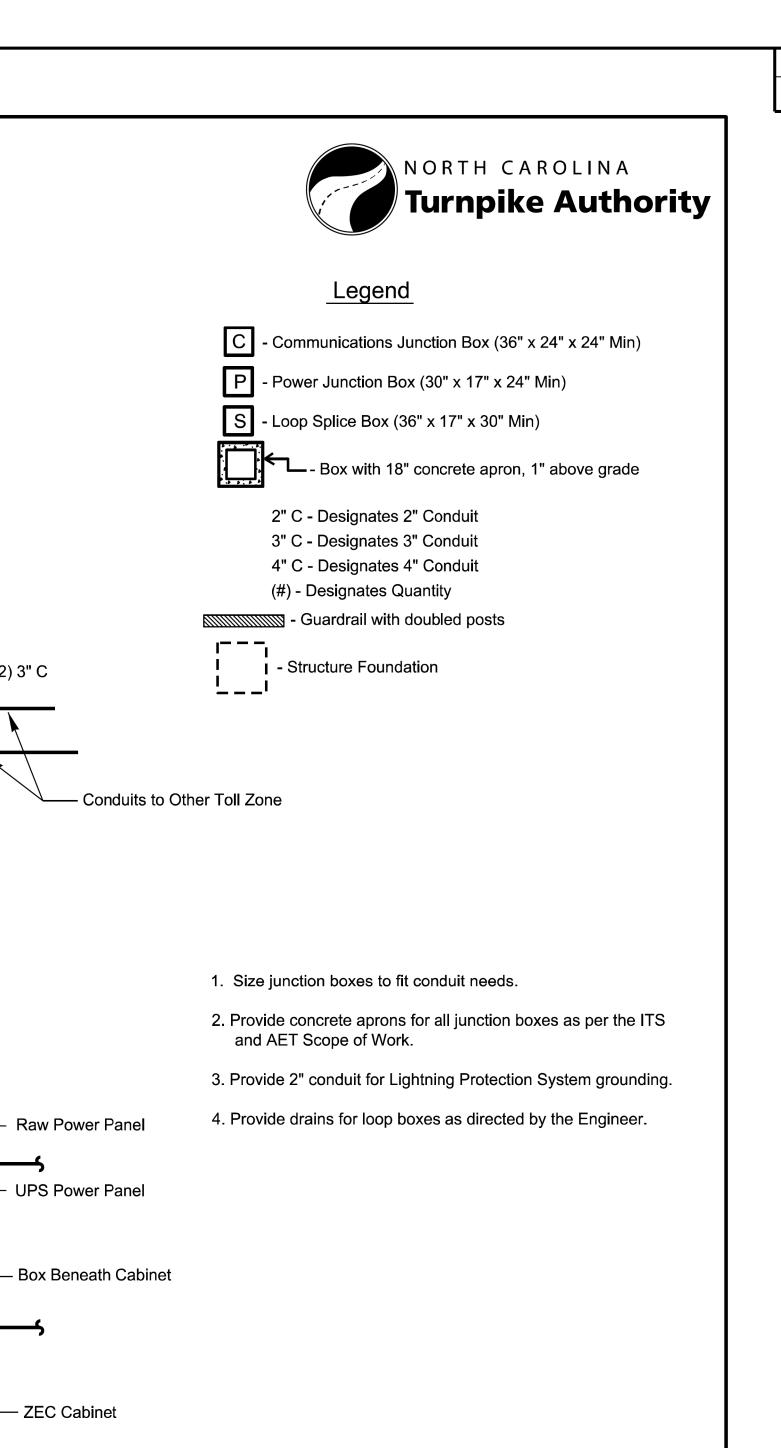
NORTH CAROLINA TURNPIKE AUTHORITY

DIVISION 05 WAKE COUNTY TOWN OF CARY
PLAN DATE: SEPTEMBER 2017 REVIEWED BY: C.B. HOLDEN
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11/13/2017 R:\*Roadway\*Proj\*AET\*U5315\_Rdy\_/

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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES F-0326

NORTH CAROLINA TURNPIKE AUTHORITY AET STANDARD DRAWINGS

Morrisville Parkway Ramp AET Toll Zone Conduit Detail

NORTH CAROLINA TURNPIKE AUTHORITY SHEET NO. SCALE: N.T.S. DATE: June 2017 E-2A

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Detail A

- ZEC Cabinet

— AVI Cabinet

-Box Beneath Cabinet

Driveway

See Detail A

— (4) 2" C

- (2) 3" C

(2) 3" C ——

(2) 2" C \_\_\_\_

(2) 2" C---

Junction Box —

(3) 2" C

(3) 3" C—

— (2) 3" C

—(1) 2" C Note 3

**AET Gantry** 

**AET Gantry** 

Downstream

(\*\*) 1" Conduits Stubbed/Capped

(\*\*) 1" Conduits — Stubbed/Capped

in Shoulder

\*\* For upstream location, number of conduits = 2 x number of tolled lanes

(shoulders greater than 4' wide count as "tolled lanes")

For downstream location, number of conduits = number of tolled lanes

in Shoulder

Loop Splice Box —

(3) 2" C —

(1) 2" C 1 Note 3

Upstream Loop Splice Box

(1) 2" C Note 3

(1) 2" C . Note 3

Single-Face Barriers

with Concrete Fill Between

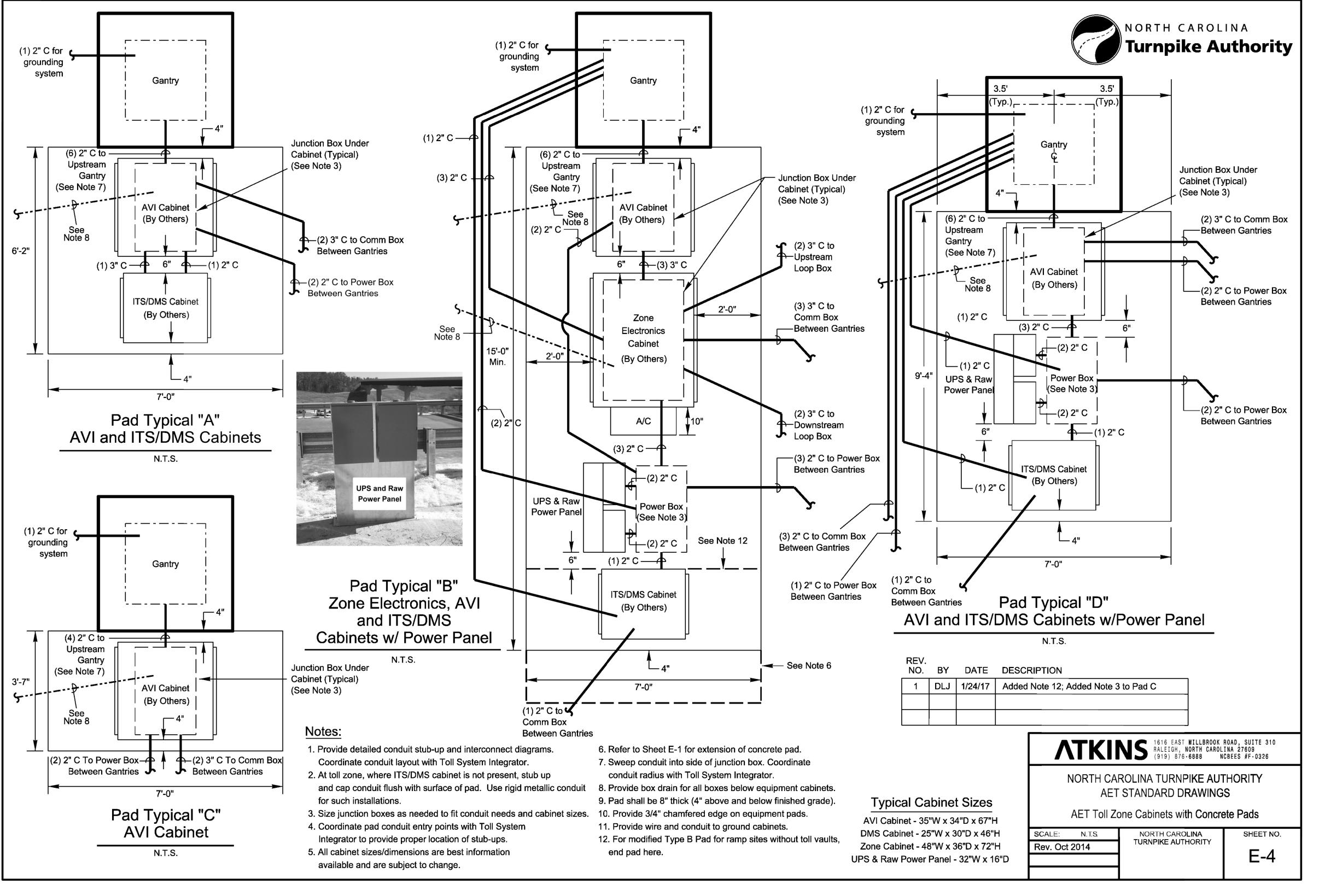


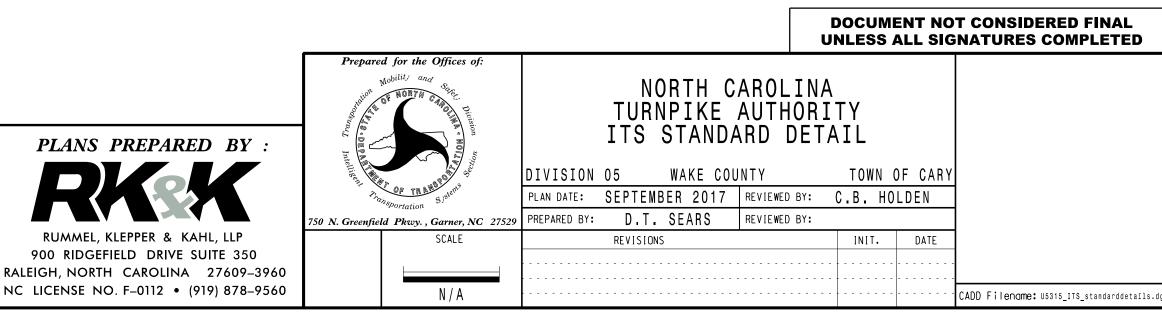
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NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL

	DIVISION	05 WAKE CO	) U N T Y	TOWN (	OF CARY
	PLAN DATE:	SEPTEMBER 2017	REVIEWED BY:	C.B. HO	LDEN
7529	PREPARED BY:	D.T. SEARS	REVIEWED BY:		
		REVISIONS		INIT.	DATE
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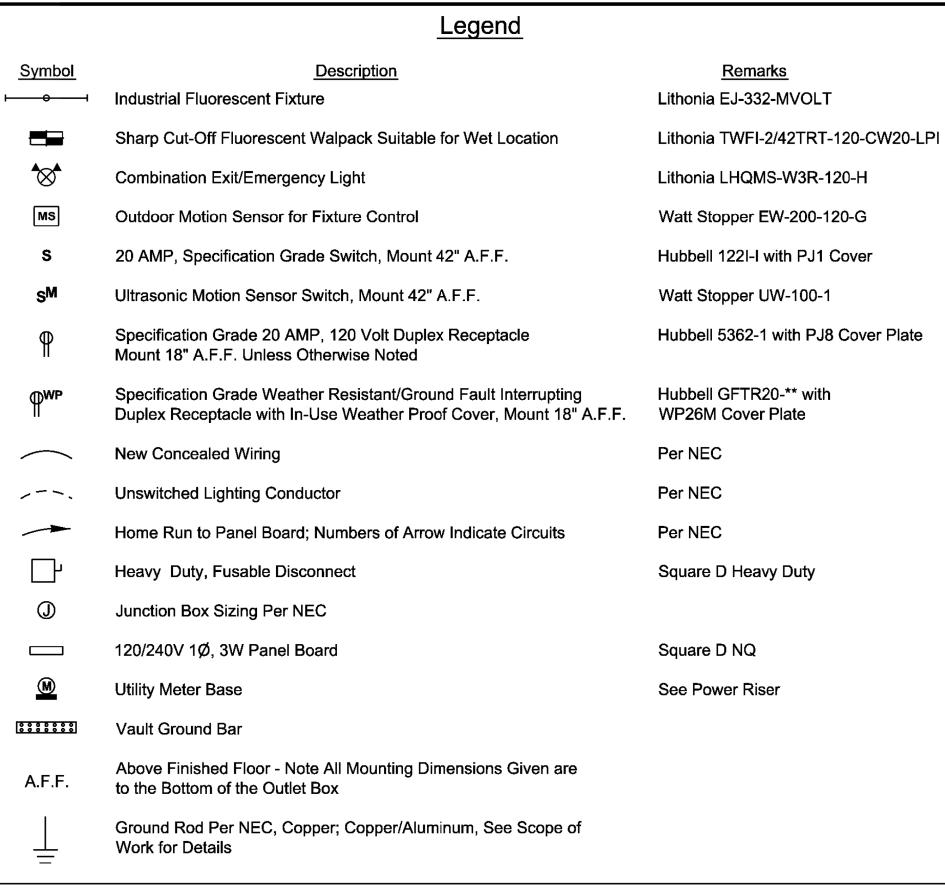
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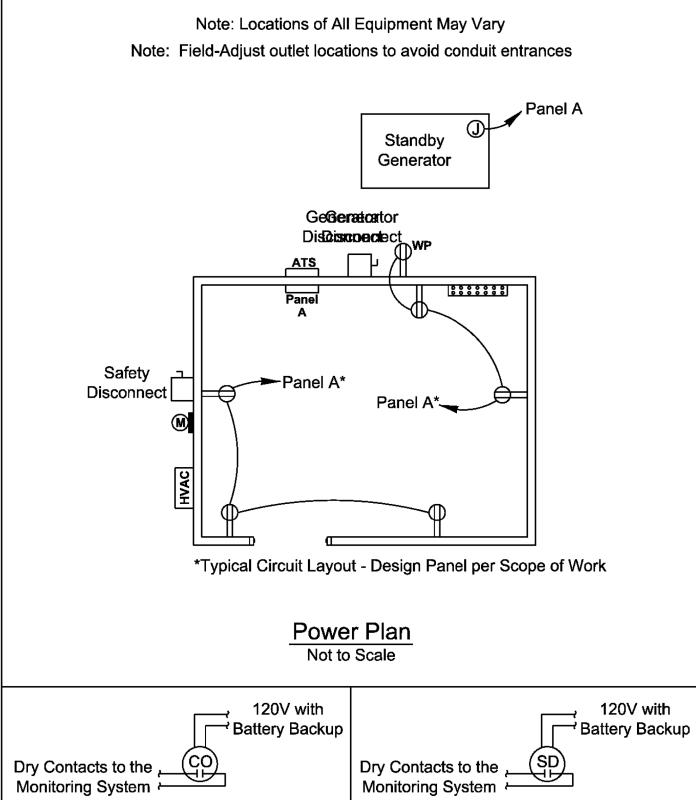




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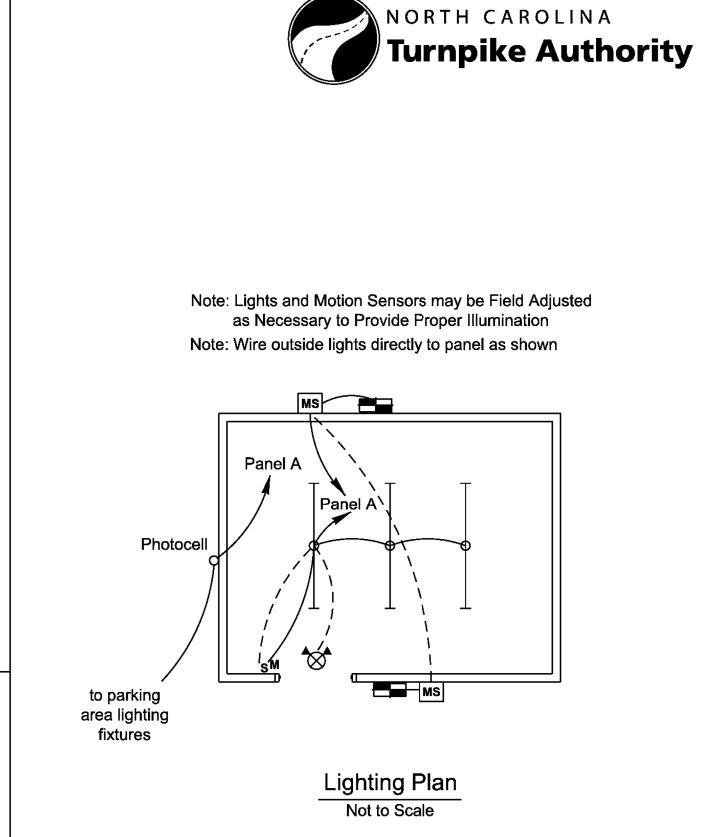
U-5315 A&B AET-1L

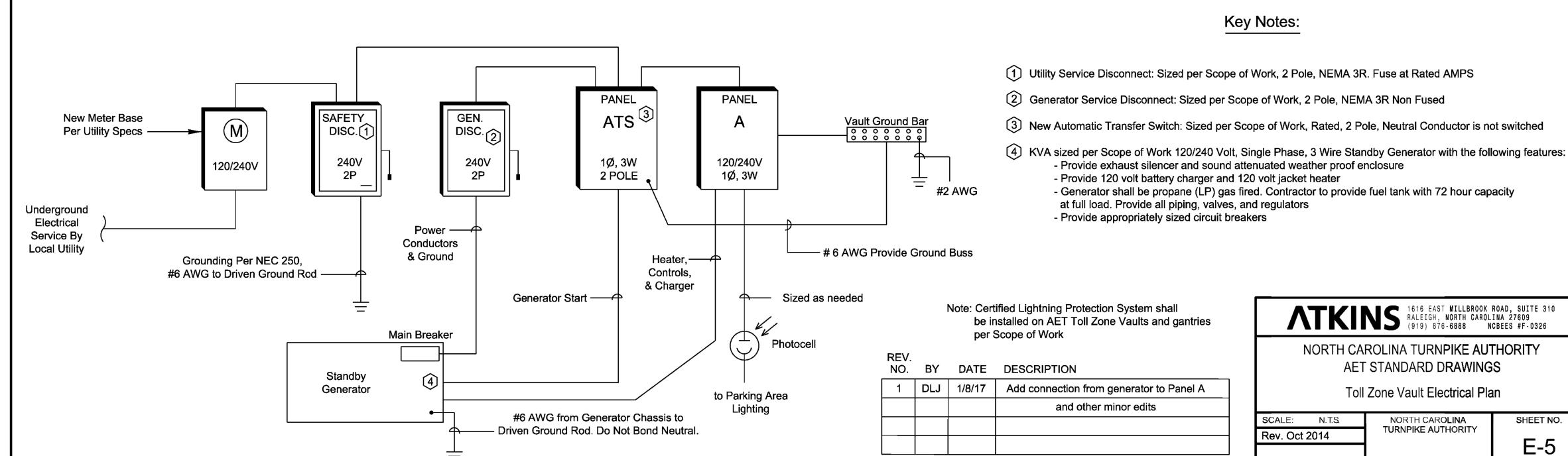




Smoke Detector

Not to Scale





Carbon Monoxide Detector

Not to Scale





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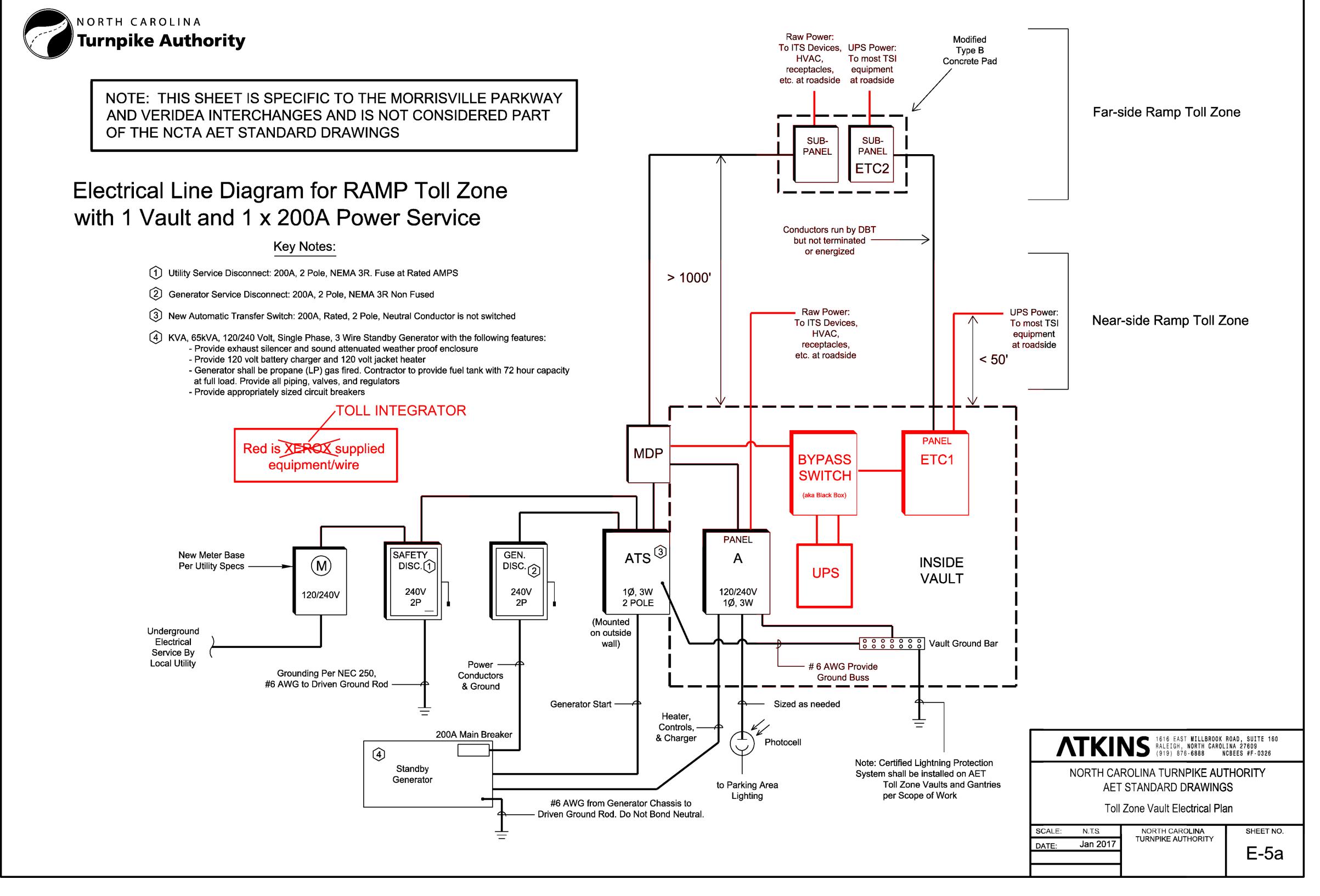
NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL

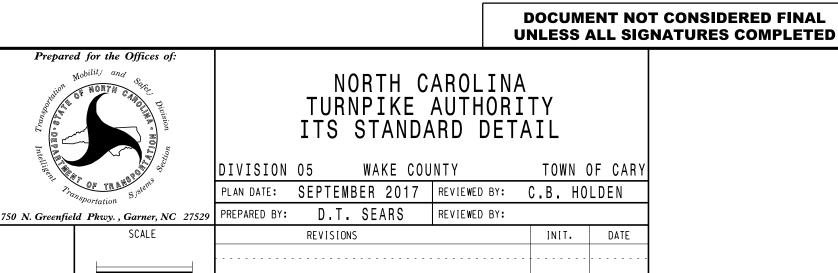
SCALE

N/A

	DIVISION	05 WAKE COU	NTY	TOWN (	OF CAR
	PLAN DATE:	SEPTEMBER 2017	REVIEWED BY: (	C.B. HO	LDEN
529	PREPARED BY:	D.T. SEARS	REVIEWED BY:		
		REVISIONS		INIT.	DATE

PROJECT REFERENCE NO. U-5315 A&B AET-1M



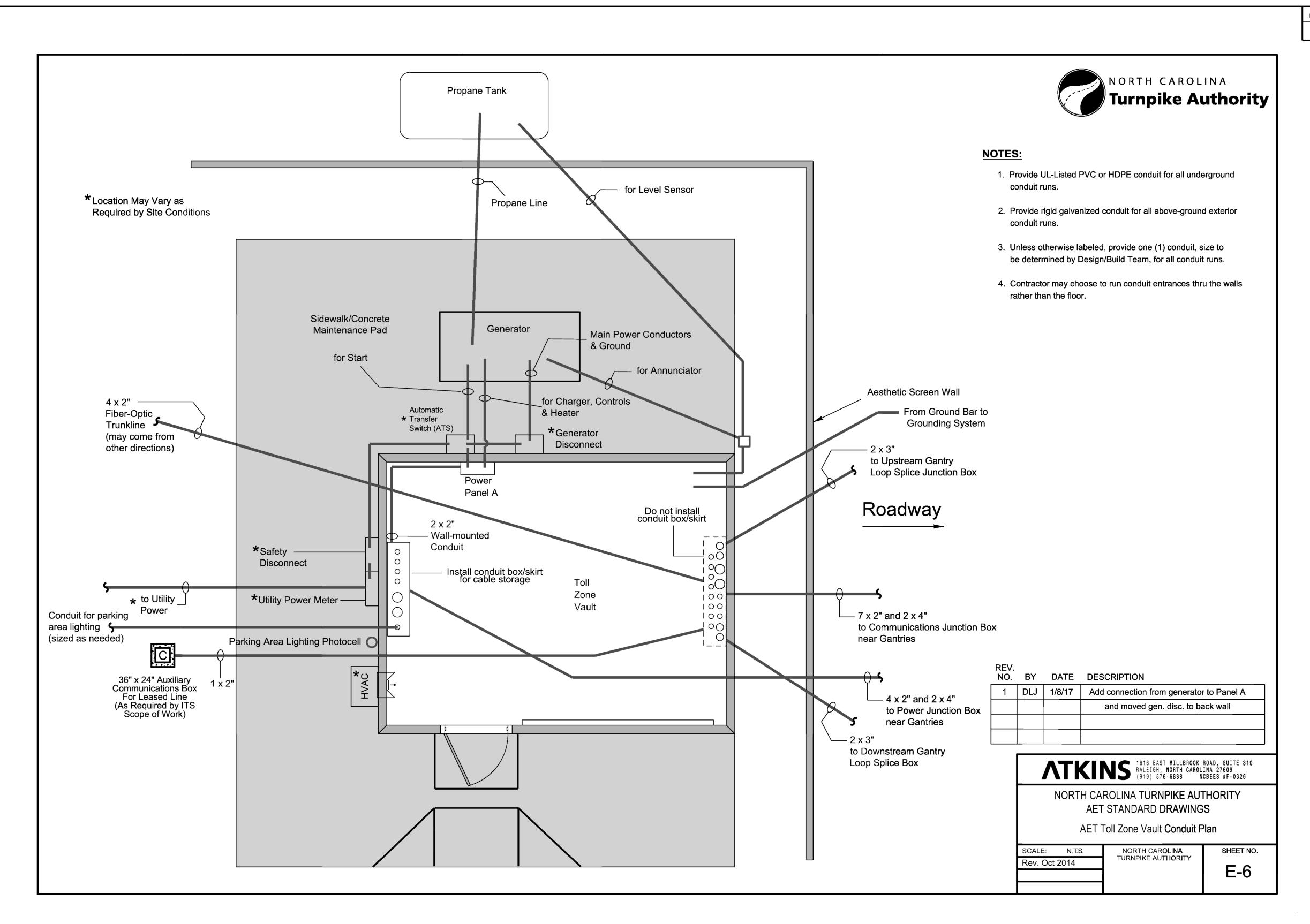


N/A

PLANS PREPARED BY:

RUMMEL, KLEPPER & KAHL, LLP

900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609-3960 NC LICENSE NO. F-0112 • (919) 878-9560







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N/A

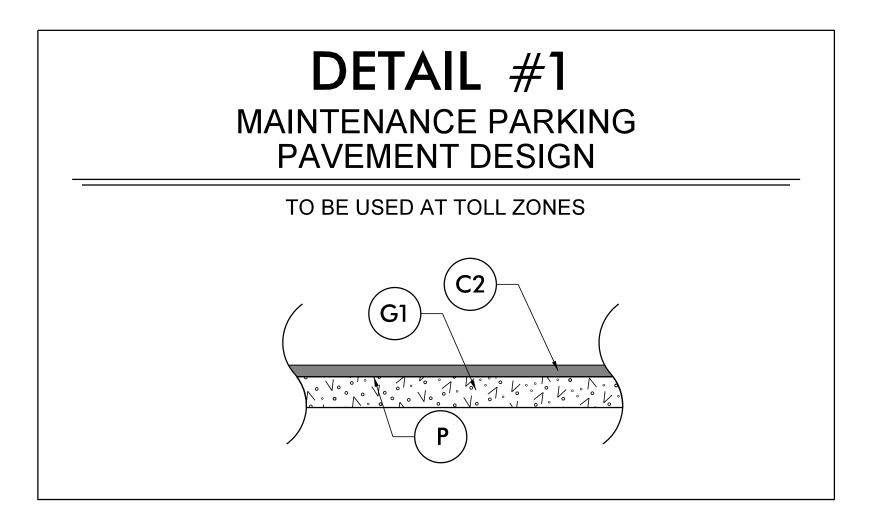
NORTH CAROLINA TURNPIKE AUTHORITY ITS STANDARD DETAIL

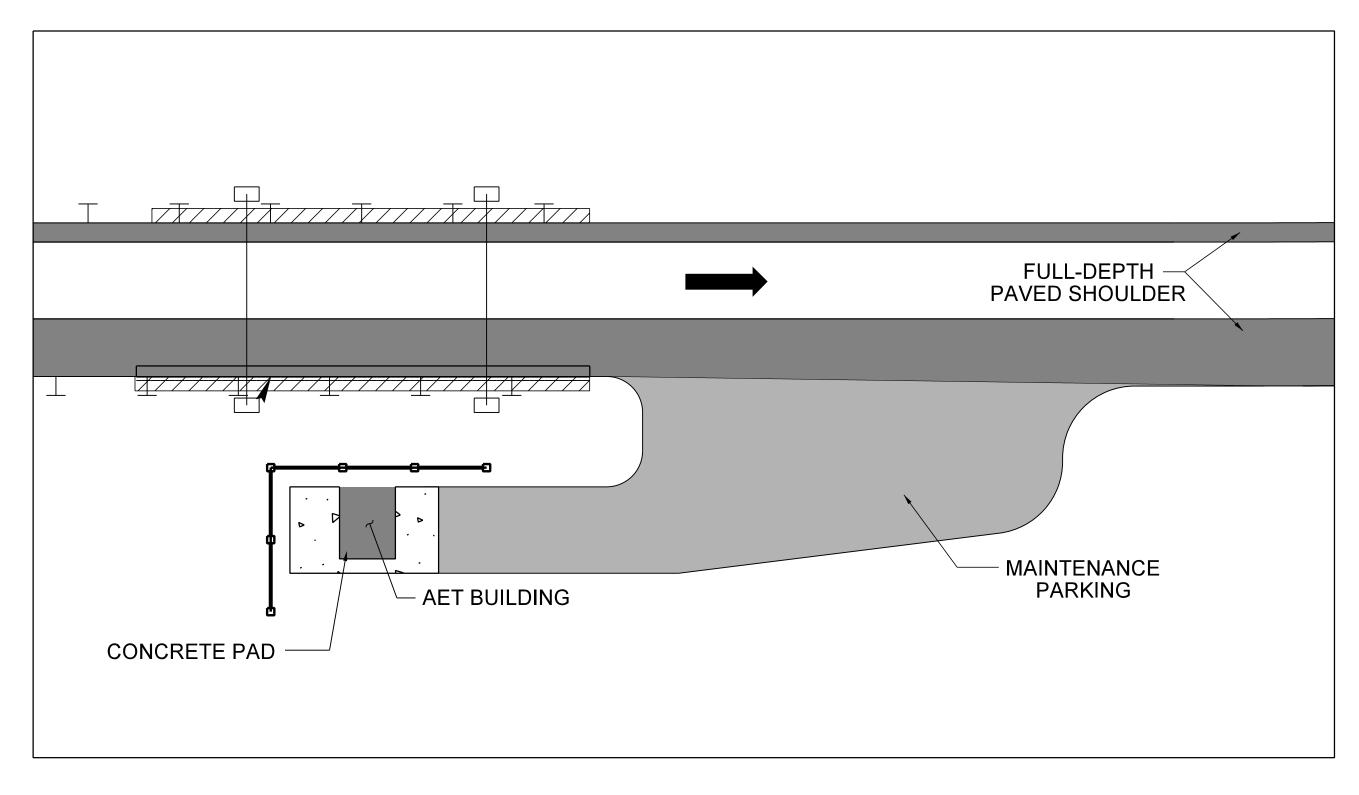
DIVISION 05 WAKE COUNTY TOWN OF CARY
PLAN DATE: SEPTEMBER 2017 REVIEWED BY: C.B. HOLDEN
PREPARED BY: D.T. SEARS REVIEWED BY:
REVISIONS INIT. DATE

PROJECT REFERENCE NO.	SHEET NO.
U-53/5 A&B	AET-10
ROADWAY DESIGN ENGINEER  SEAL 044558  OMGINEER  11/10/2017	
David J. Sears	
DOCUMENT NOT CONSI	

# TYPICAL AET FACILITY PAVEMENT DETAILS

	PAVEMENT SCHEDULE
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
G1	8" CEMENT TREATED AGGREGATE BASE COURSE
Р	PRIME COAT AT THE RATE OF 0.35 GAL PER SQ YD





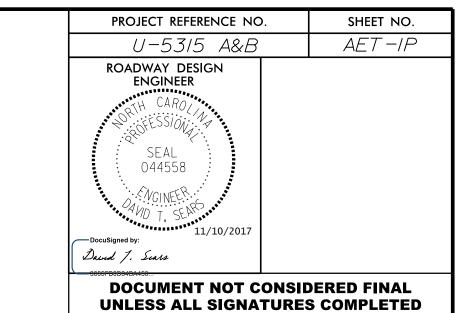
FOR FULL-DEPTH PAVED SHOULDER PAVEMENT DESIGN SEE RFC ROADWAY PLANS

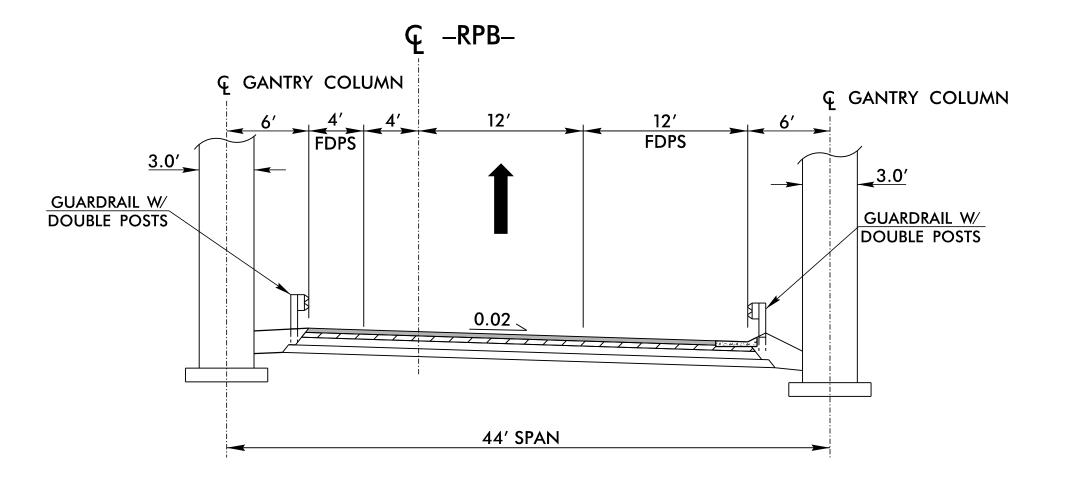
TOLL ZONE	SHEET NUMBER
T16	2A-3
T15	2A-3

PLANS PREPARED BY:

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FOR
THE NORTH CAROLINA
TURNPIKE AUTHORITY

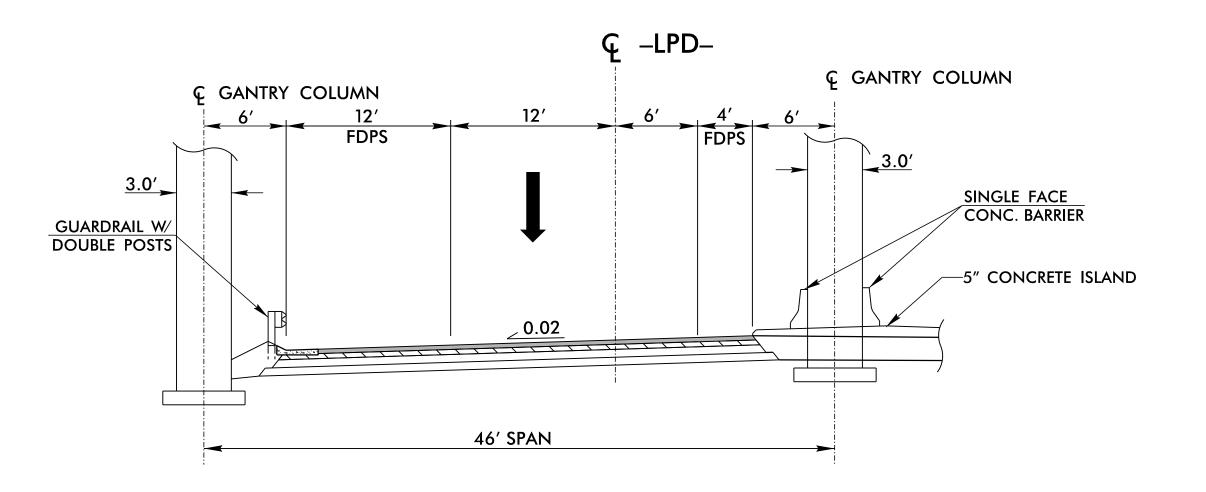
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<u>RAMP AET GANTRY</u>

-RPB- STA. 20+14.00 TO 20+64.00 (TOLL ZONE T16)



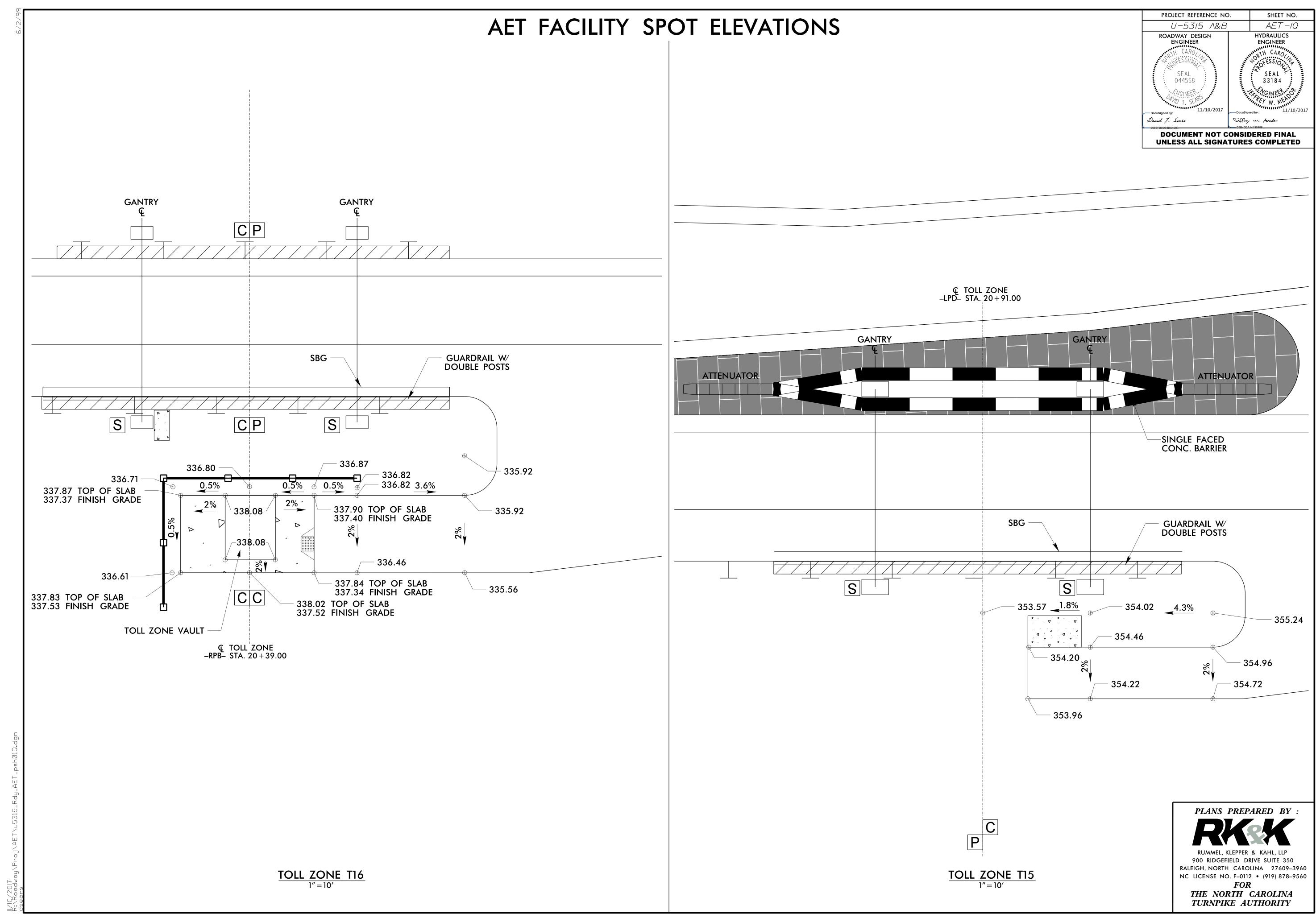
<u>LOOP AET GANTRY</u>

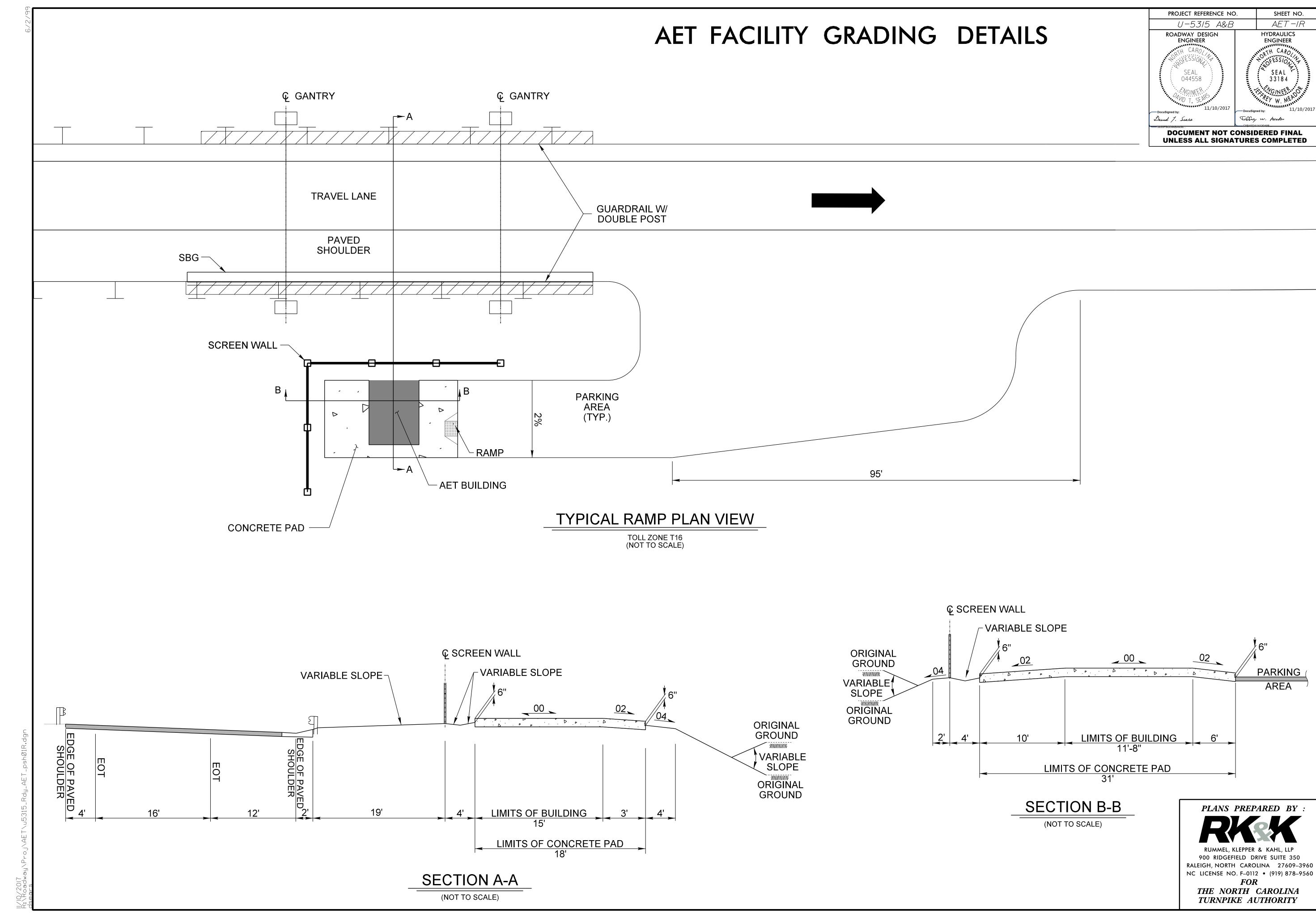
-LPD- STA. 20+66.00 TO 21+16.00 (TOLL ZONE T15)

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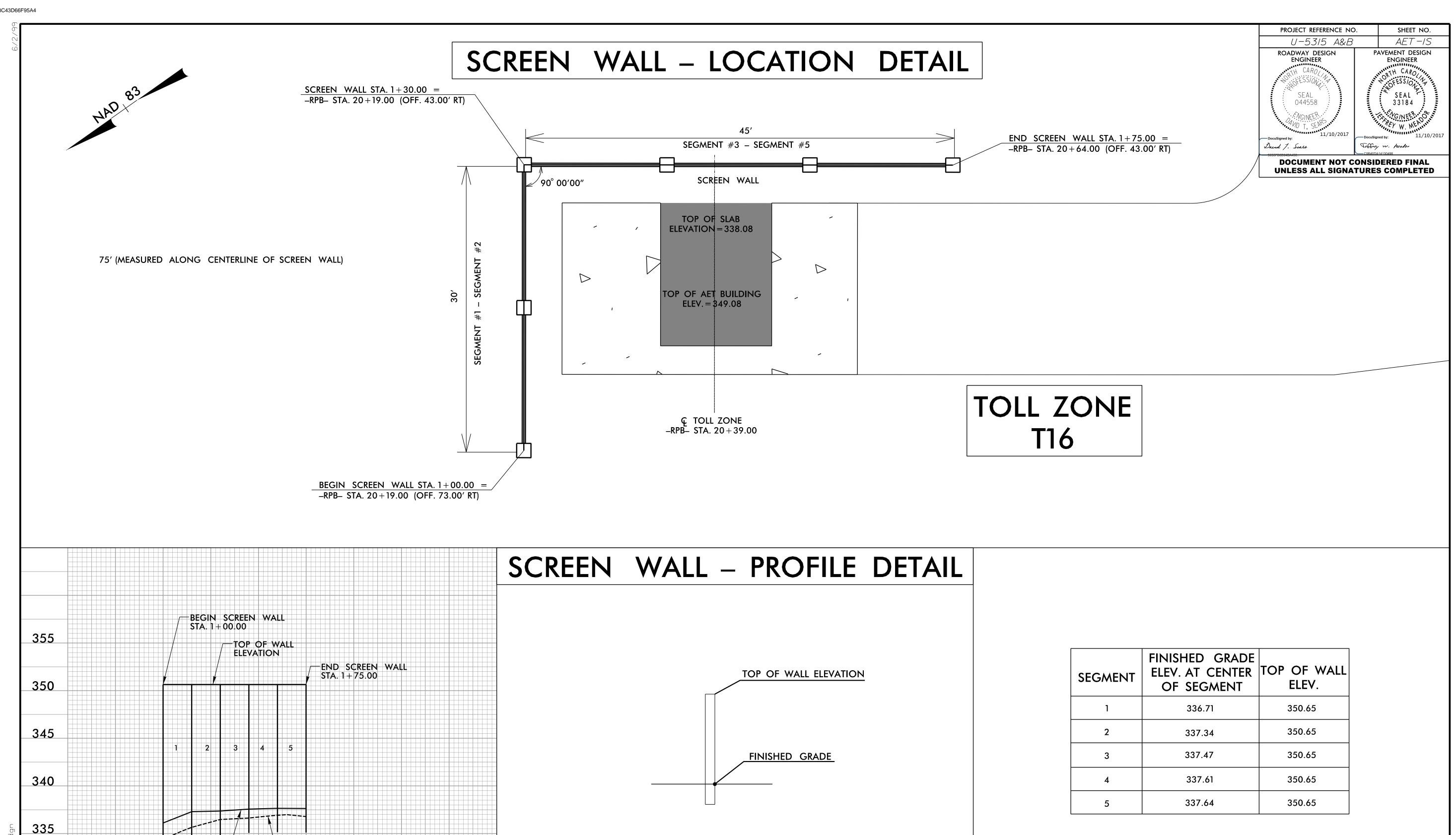
EXISTING GROUND

2 + 00

FINISHED -

GRADE

1 + 00



**ELEVATION LOCATIONS** 

N.T.S.

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